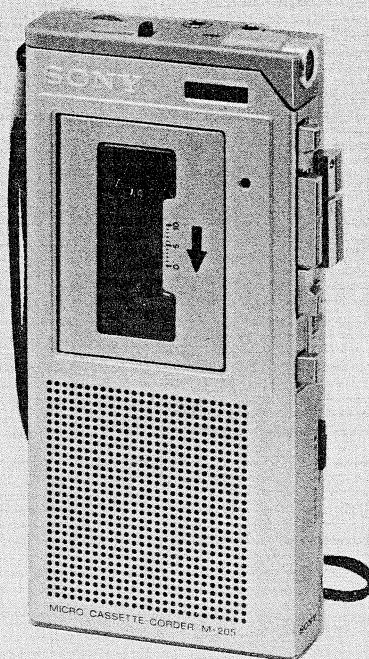


436

M-205/205A

2204

Discard your M-205
Service Manual (S-950-595-111)
previously issued



M-205:

US Model
Canadian Model
AEP Model
E Model

M-205A:

US Model

MICRO CASSETTE-CORDER

SPECIFICATIONS

Tape	MICROCASSETTE	
Recording system	2-track 1-channel monaural	
Fast forward time	Approx. 2 min. with Sony Microcassette MC-60 (at 2.4 cm position) Approx. 4 min. with Sony Microcassette MC-60 (at 1.2 cm position)	
Rewinding time	Approx. 1 min. 40 sec. with Sony Microcassette MC-60 (at 2.4 cm position) Approx. 3 min. 20 sec. with Sony Microcassette MC-60 (at 1.2 cm position)	
Frequency response	200—7,000 Hz (at 2.4 cm position) 200—4,000 Hz (at 1.2 cm position)	
Tape speeds	2.4 cm/sec (15/16 ips) 1.2 cm/sec (15/32 ips)	
Speaker	Approx. 3.6 cm (1 ⁷ / ₁₆ inches) dia.	
Power output	250 mW (at 10% harmonic distortion)	
Input	Microphone input jack (minijack) sensitivity 0.2 mV (−72 dB) for low impedance microphone	
Output	Earphone jack (minijack) for 8-ohm earphone or load impedance 10 kilohms or higher	
Power requirements	3 V dc, two batteries, IEC designation R6 (size AA), or optional Sony Rechargeable Battery Pack BP-33 120 V ac, 60 Hz with optional Sony AC-39 AC Power Adaptor available in Canada & USA	
		110, 120, 220 or 240 V ac, 50/60 Hz with optional Sony AC-32* AC Power Adaptor available in other countries 12 V car battery with optional Sony Car Battery Cord DCC-127A* * For connection with the AC-32 or the DCC-127A, the optional DC Plug Adaptor PC-200 is required.
		Power consumption 5 W ac at 60 Hz with Sony AC-39 AC Power Adaptor available in Canada & USA 6.6 VA ac at 50 Hz, 6.2 VA ac at 60 Hz with Sony AC-32 AC Power Adaptor available in other countries
		Battery life Approx. 3 hours of continuous recording with the Built-in Microphone with Eveready Heavy Duty Batteries No. 1215 Approx. 4 hours of continuous recording with the Built-in Microphone with Sony New Super Batteries SUM-3 (NS) Approx. 8 hours with Eveready Alkaline Batteries No. E91
		Dimensions Approx. 63 × 136 × 23 mm (w/h/d) (2 ¹ / ₂ × 5 ¹ / ₈ × ²⁹ / ₃₂ inches) not incl. projecting parts and controls Approx. 230 g (8 oz) incl. batteries
		Weight

Tape Transport
Mechanism Type

MZ-205-93

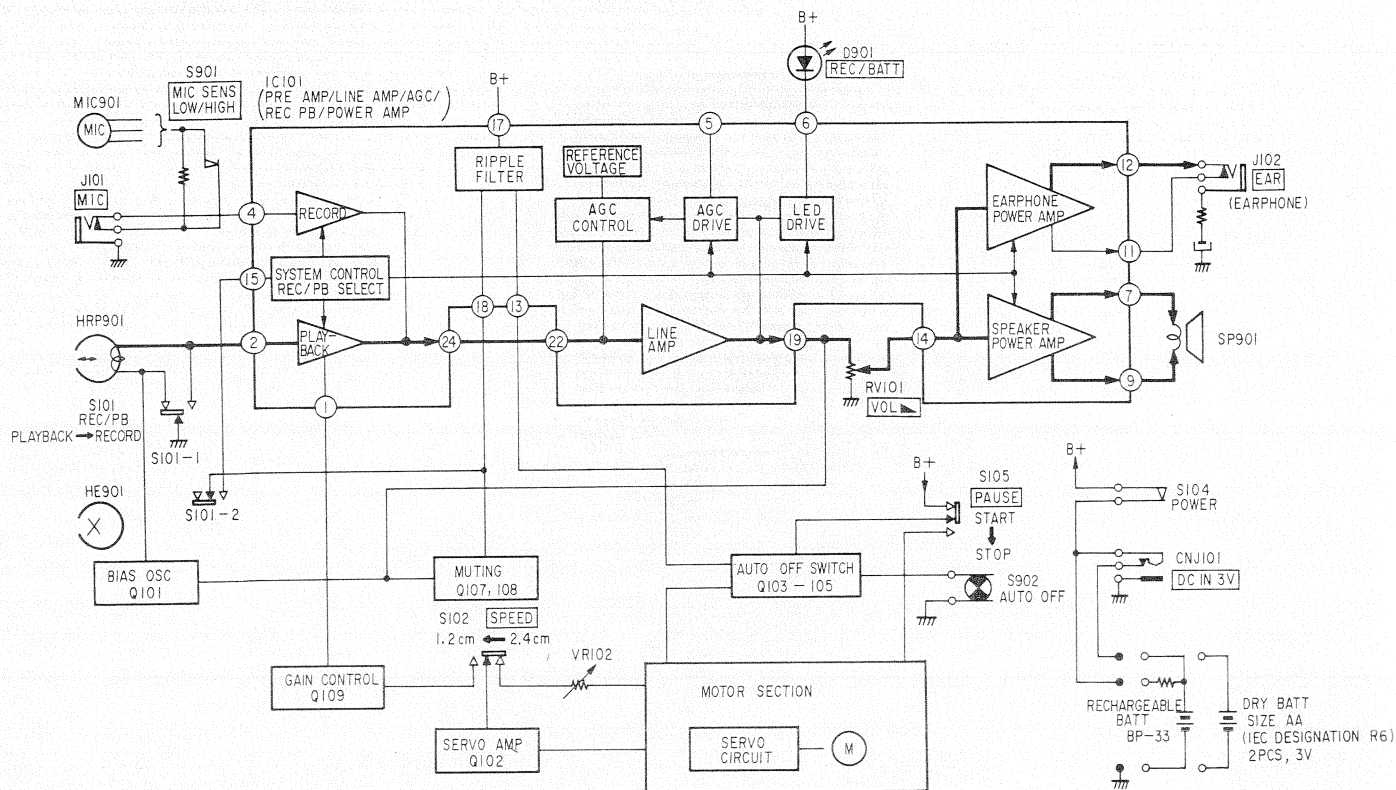


SONY
SERVICE MANUAL

2204

SECTION 1 OUTLINE

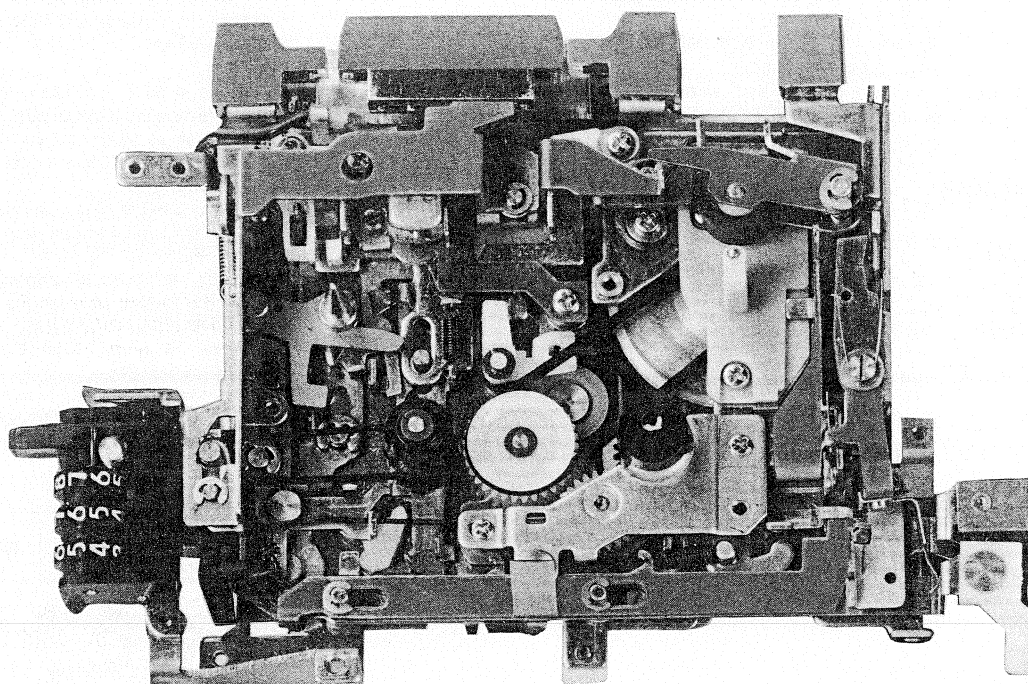
1-1. BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

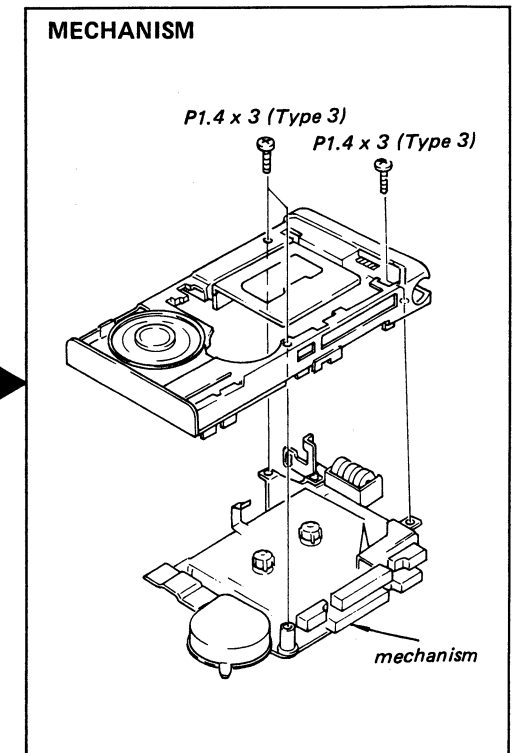
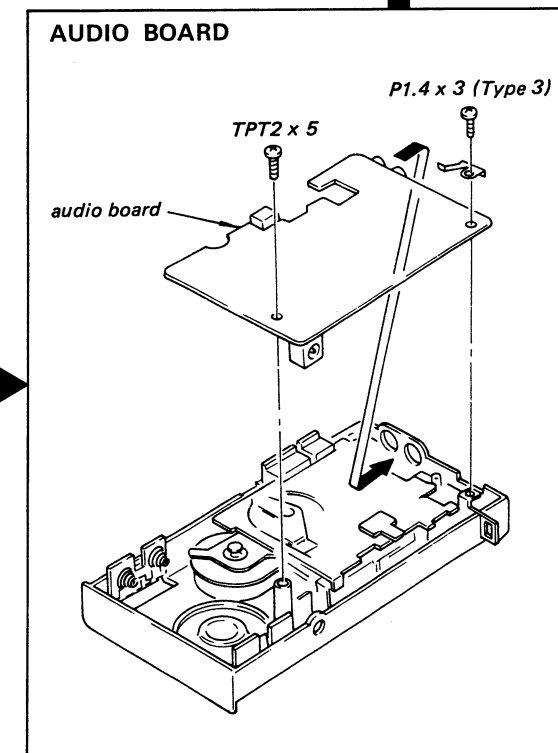
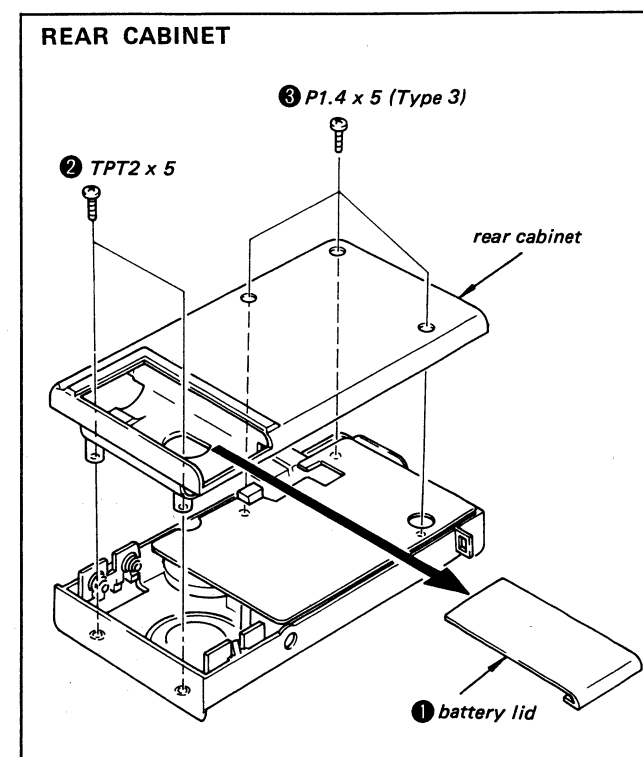
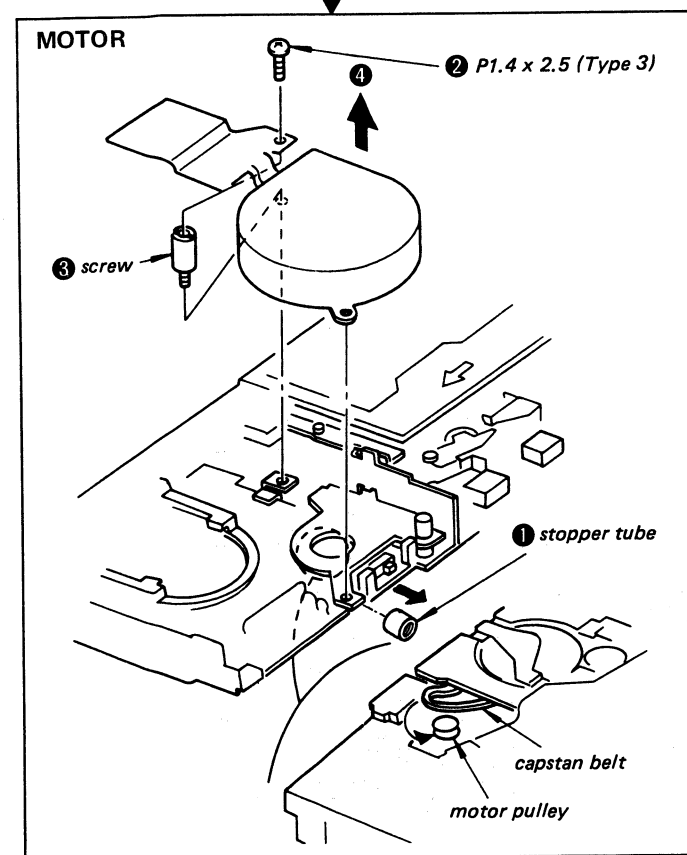
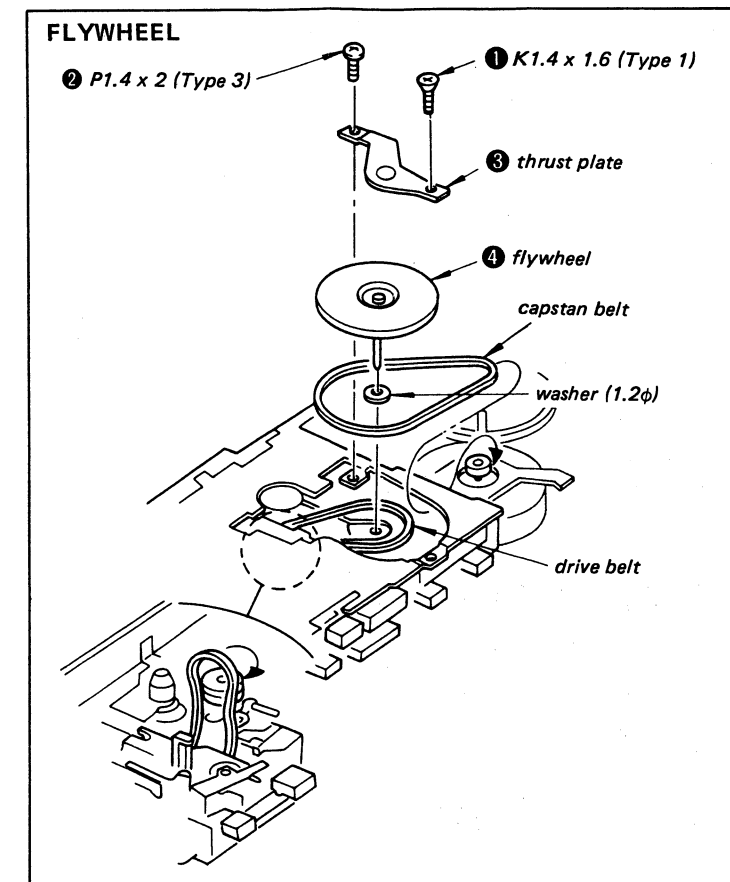
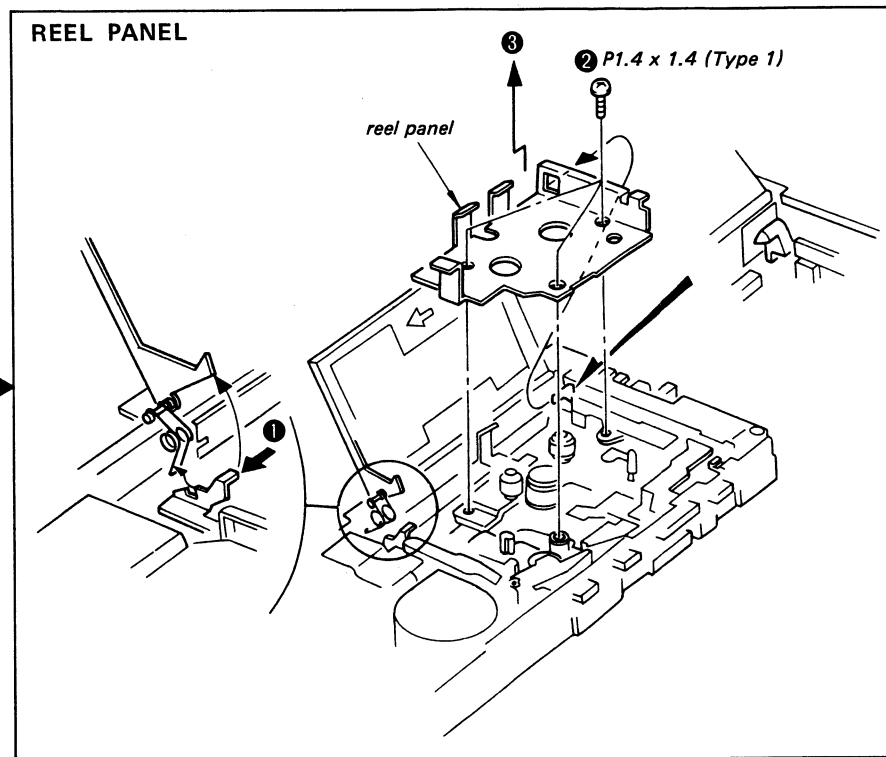
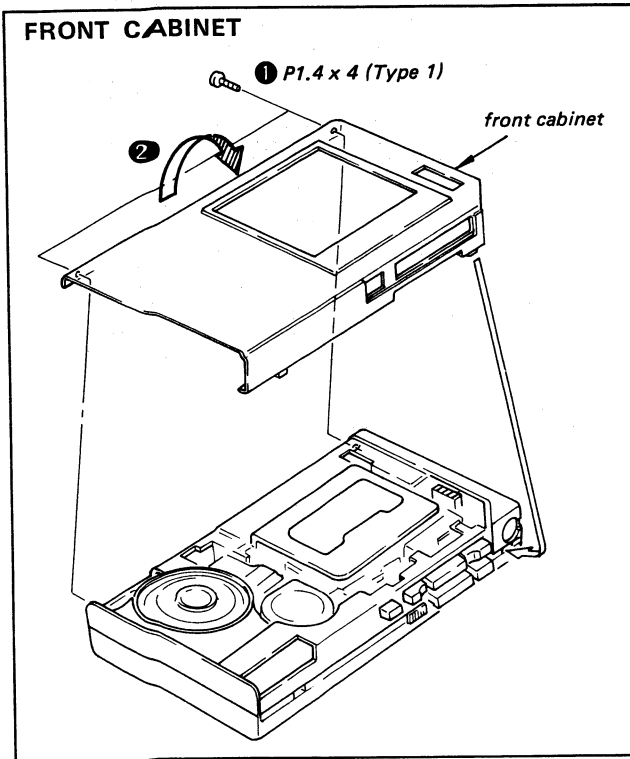
2-1. MECHANISM SECTION

(Information on reassembling after repairing)



2-2. REMOVAL

Note: Following the disassembly procedure in the numerical order given.
For precision screws, refer to the list on page 19 for their part numbers.



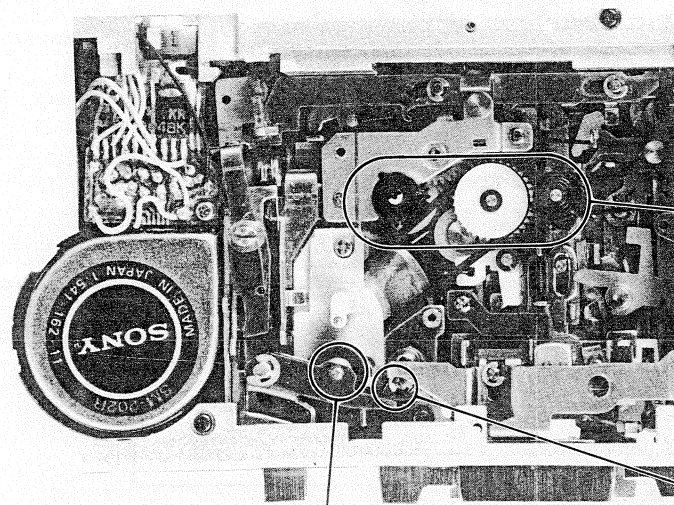
SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



Torque Measurement (Perform by 3 V dc)

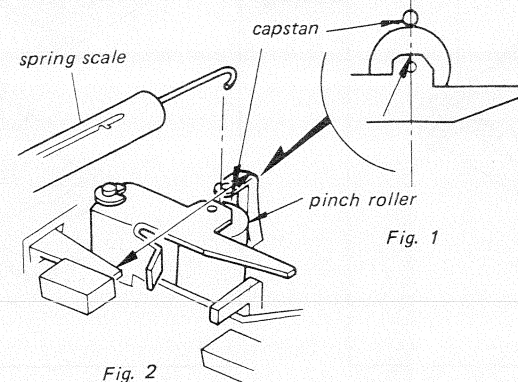
Mode	Torque meter	Torque
FWD	CQ-103M	4.5 - 9 g·cm
FF	CQ-201M	more than 15 g·cm
REW	CQ-201M	more than 15 g·cm

Pinch Roller Pressure Adjustment

— Playback Mode —

1. Hook the spring scale (300g) to the portion shown by the arrow (Fig. 1).
2. Detach the pinch roller from the capstan in the direction shown by the arrow (Fig. 2).
3. Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating.

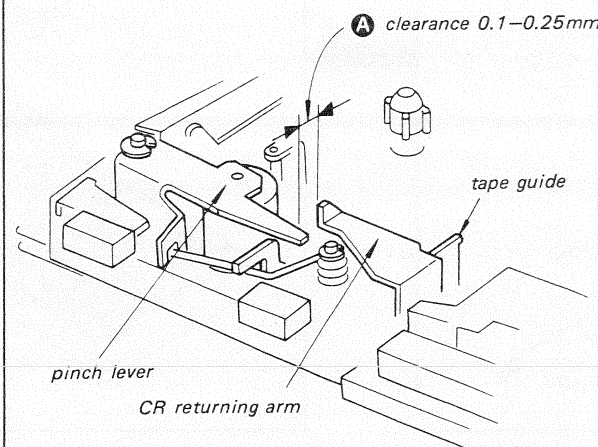
Specification: 150 ± 20 g (5 - 6 oz)



Clearance Adjustment

— Between pinch lever and CR returning arm —

1. Rotate the pinch roller.
2. Confirm that the clearance marked by A is 0.1-0.25 mm.
3. If necessary, press the CR returning arm against the tape guide side without rotating pinch roller.



Record/playback Head Azimuth Adjustment

Adjustment Location:

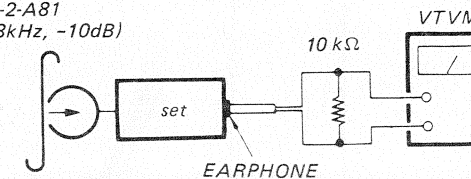
Setting:

VOL control: Mechanical mid

Procedure:

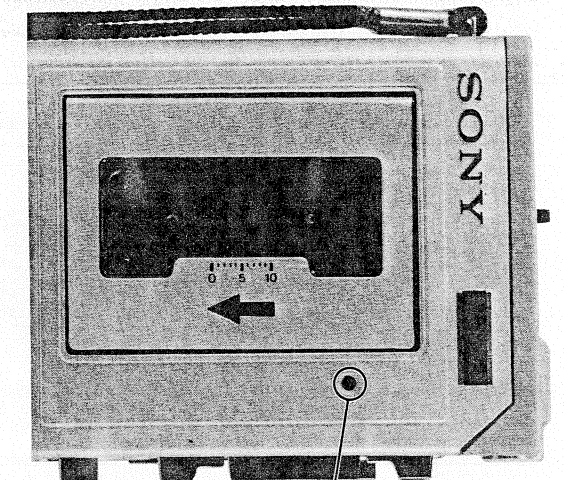
1. Mode: playback (speed: 2.4 cm/s)

test tape
S-2-A81
(3kHz, -10dB)



2. Turn the adjustment screw for maximum VTVM reading.

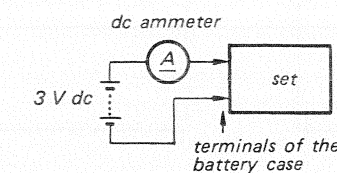
Note: Several peaks may appear, but take the maximum



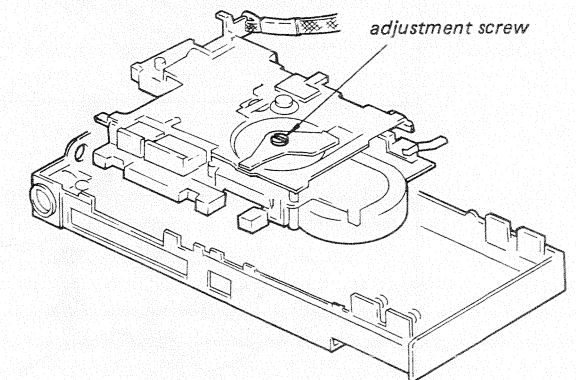
azimuth adjustment screw
(Remove the cap.)

Flywheel Thrust Play Adjustment

— Playback Mode —

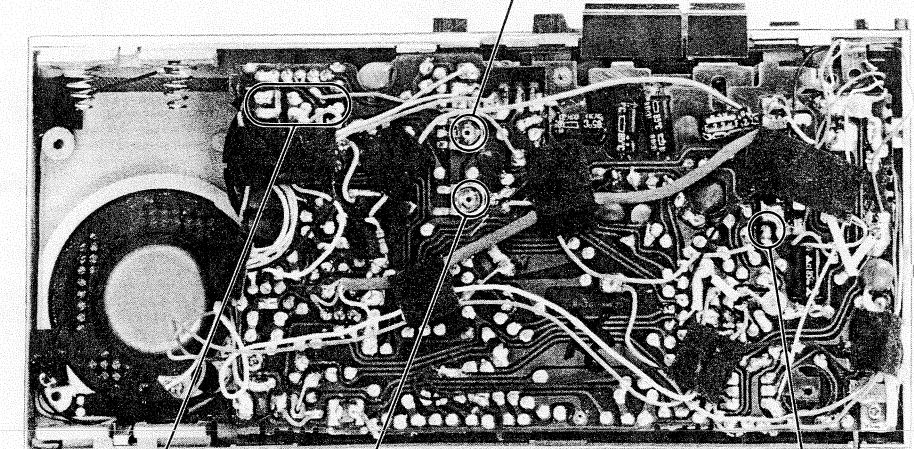


1. Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about 1/4 turn from the position obtained in step 2.



ELECTRICAL ADJUSTMENT LOCATION

VR103
Tape Speed Adjustment (1.2 cm/s)



Record Bias Adjustment

VR102
Tape Speed Adjustment (2.4 cm/s)

Microphone Sensitivity Adjustment

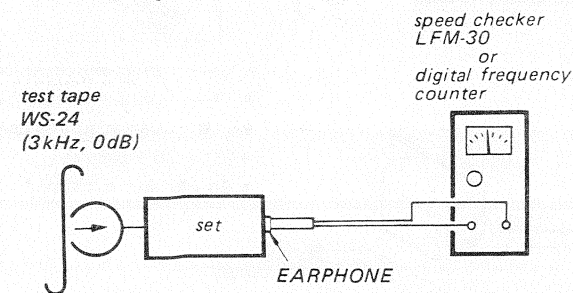
3-2. ELECTRICAL ADJUSTMENTS

Tape Speed Adjustment

Setting:
VOL control: mechanical mid

Procedure:

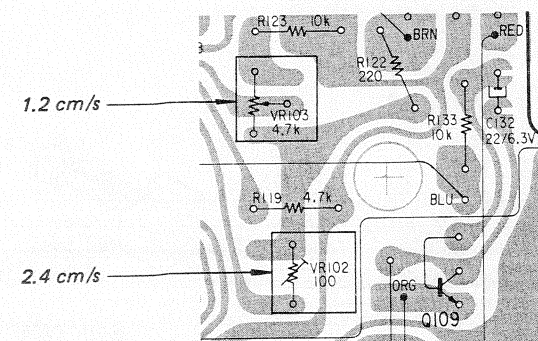
Mode: playback



Specification: Perform the adjustment at 1.2 cm/s first.

1. S102: 1.2 cm (1480 Hz – 1495 Hz)
2. S102: 2.4 cm (2970 Hz – 3000 Hz)

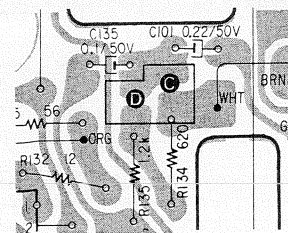
Adjustment Location:



Microphone Sensitivity Adjustment

Pattern Connection	Marking of Microphone case	Marking of Microphone Slider Ass'y
C	Black	White
D	Red	No marking

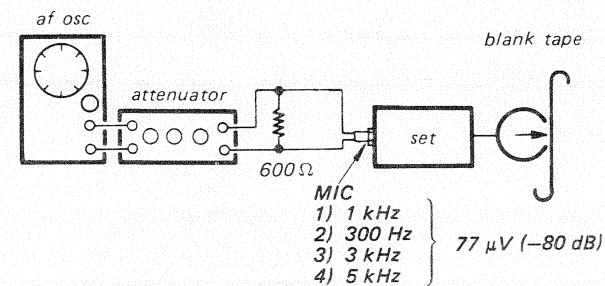
Adjustment Location:



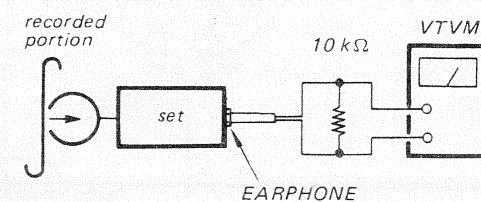
Record Bias Adjustment

Procedure:

1. Mode: record



2. Mode: playback



Playback 1 kHz, adjust PB/VOL for 77 mV (-20 dB) VTVM reading.

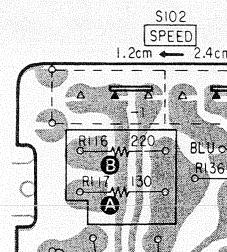
3. Confirm the playback signal levels are as follows. If necessary, change the pattern connections and repeat the steps given above.

Specification:

Speed Fre- quency	1.2 cm/s	Speed Fre- quency	2.4 cm/s
300 Hz	-6.5 dB ~ -0.5 dB (0.38 V ~ 0.45 V)	300 Hz	-8.5 dB ~ -4.5 dB (0.3 V ~ 0.48 V)
3 kHz	-11.5 dB ~ -3.5 dB (0.21 V ~ 0.53 V)	5 kHz	-10 dB ~ -2 dB (0.25 V ~ 0.64 V)

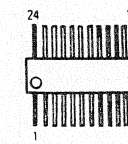
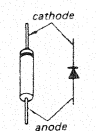
Pattern Connection	VTVM Reading (3 kHz, 5 kHz)
B	up
A	down
A B	

Adjustment Location:

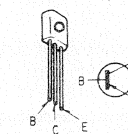


SEMICONDUCTOR LEAD LAYOUTS

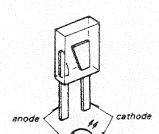
CX807

1T22AM
1S1555

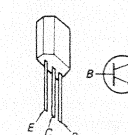
2SA1175



GL-9PR10



2SC2458



SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM

A B C D E F G

1

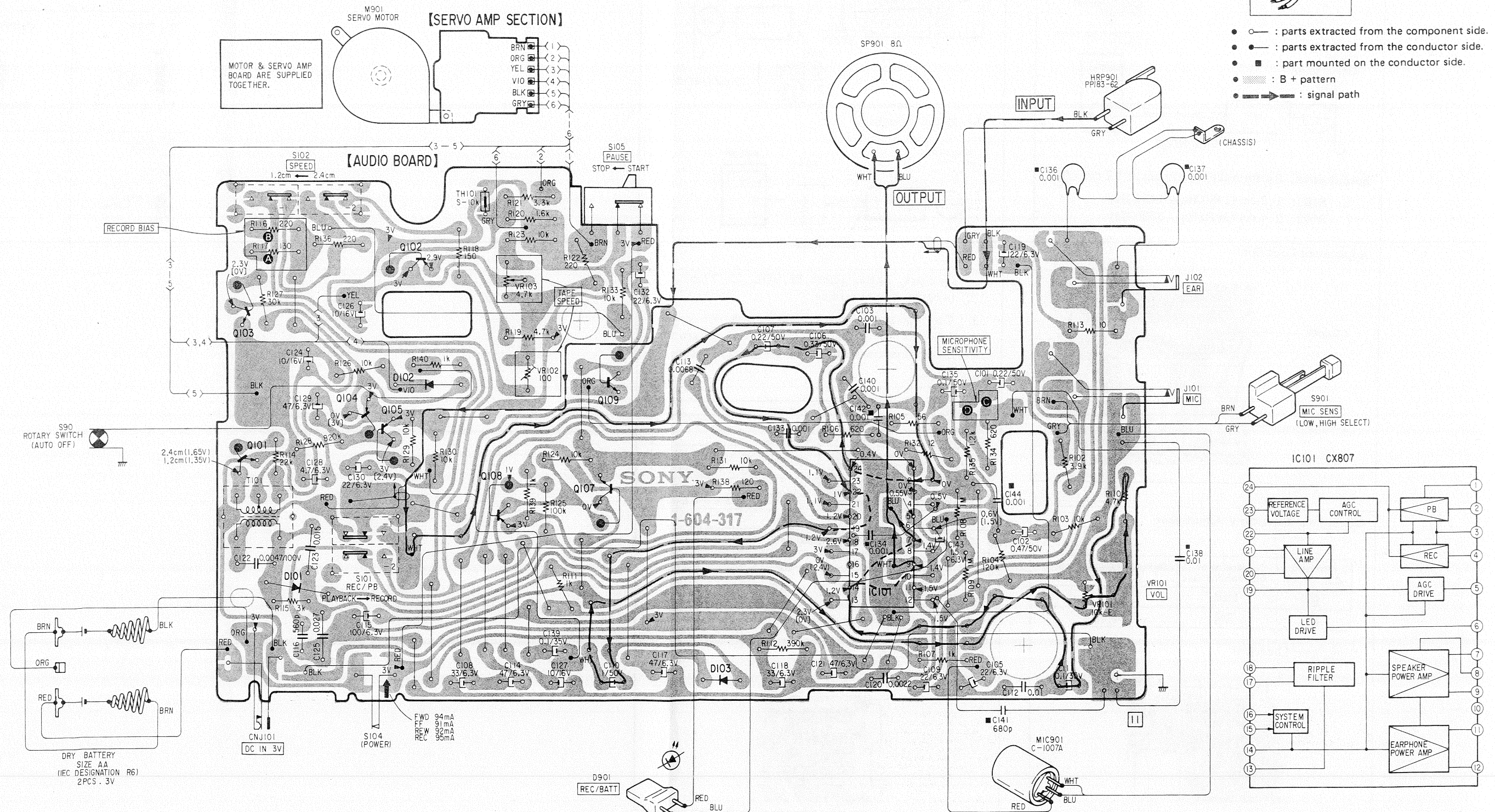
Q	103	104	105	102	109	
IC	101				107	IC101
D	101	101	102		103	

2

3

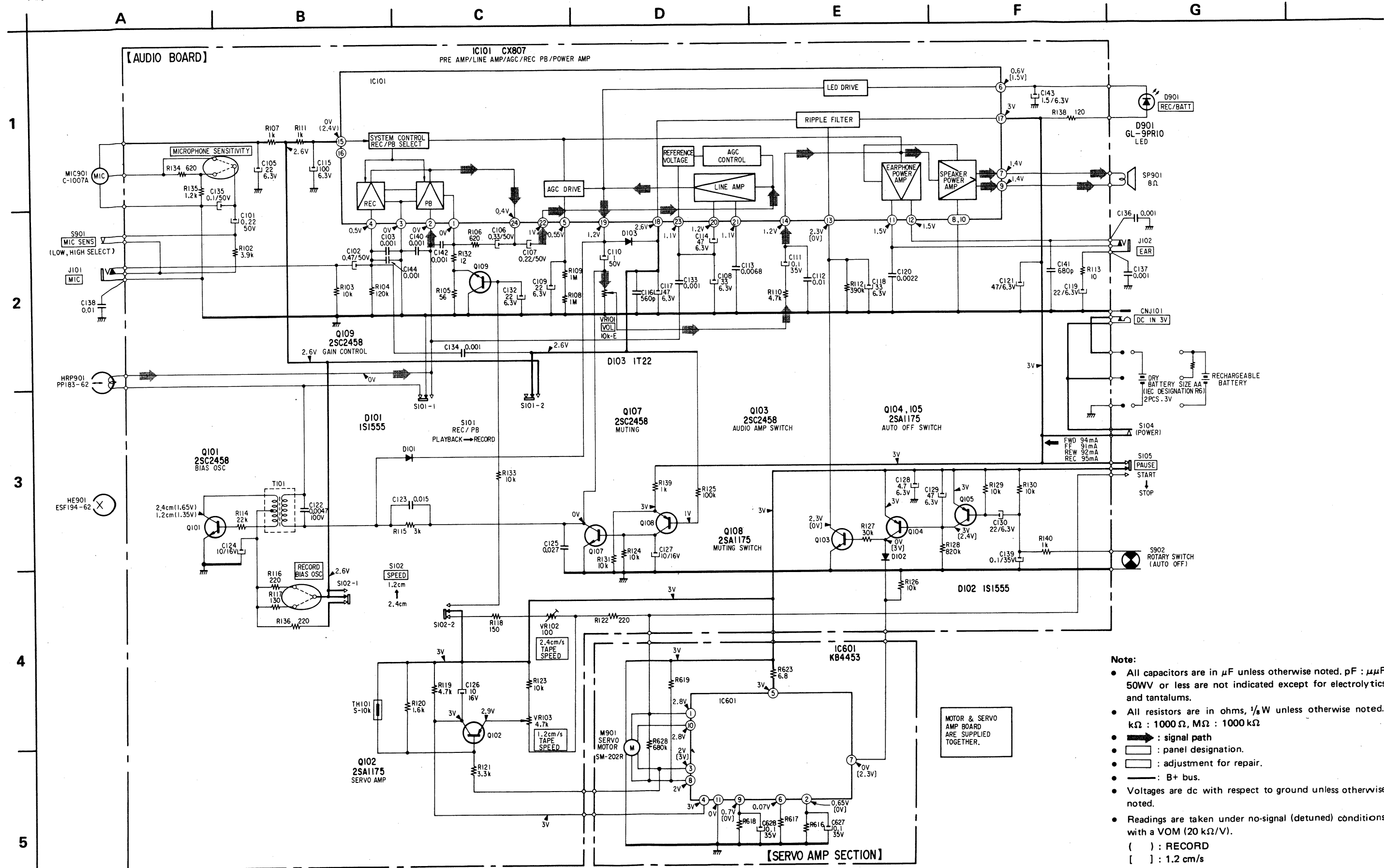
4

5



M-205/205A	M-205/205A
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4-2. SCHEMATIC DIAGRAM

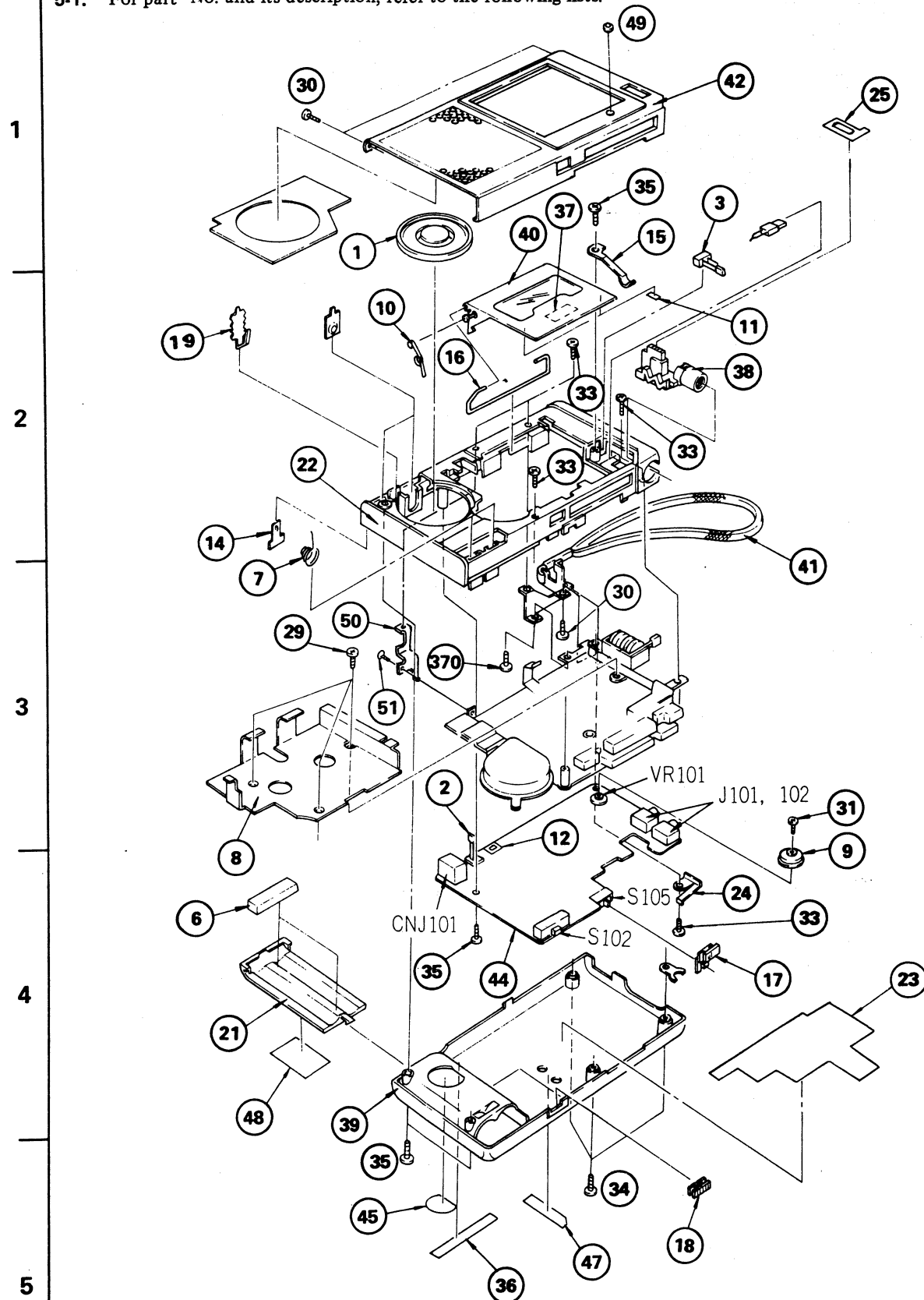


Note:

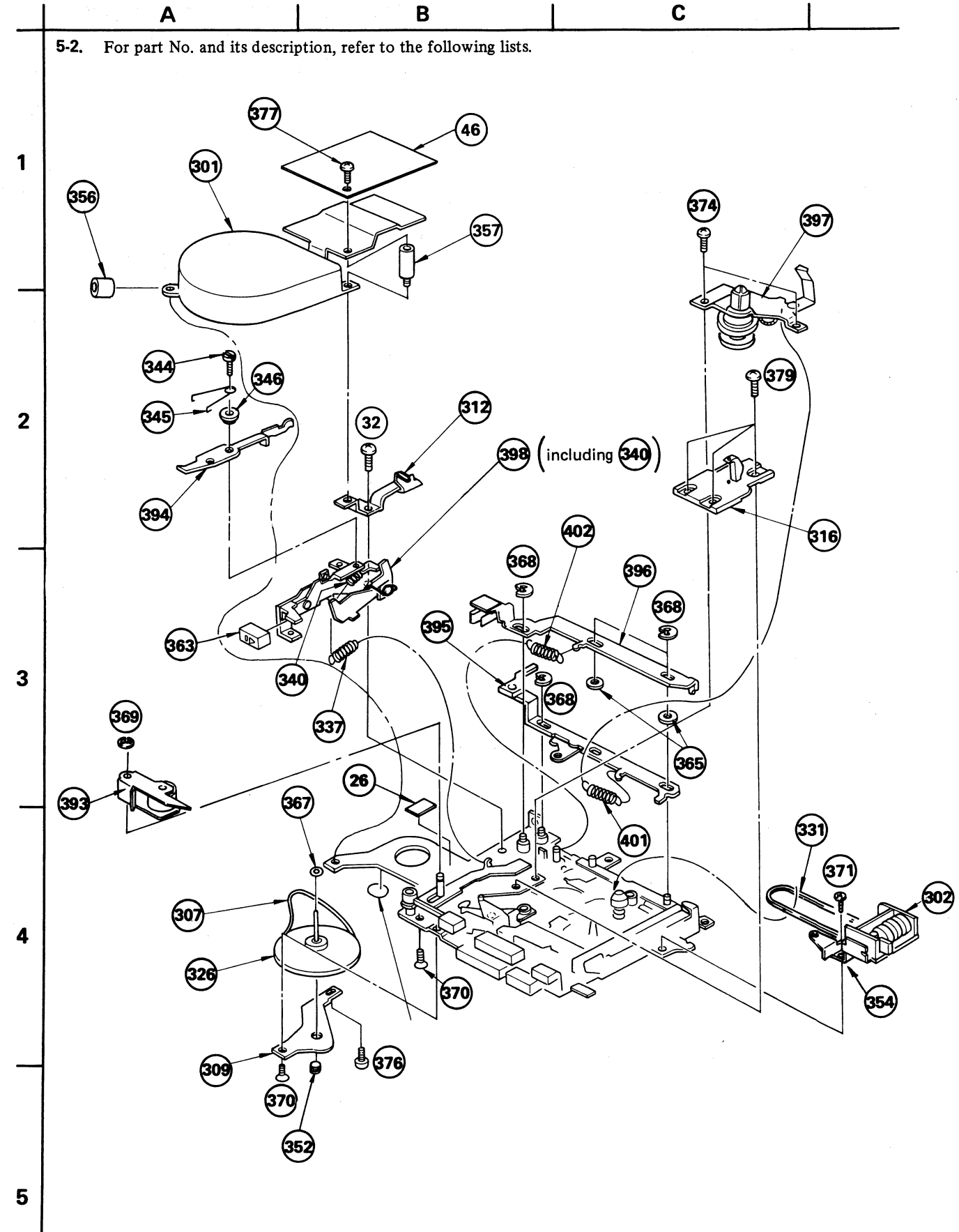
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{8}\text{ W}$ unless otherwise noted.
 $\text{k}\Omega : 1000\ \Omega$, $\text{M}\Omega : 1000\ \text{k}\Omega$
-  : signal path
-  : panel designation.
-  : adjustment for repair.
-  : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
 () : RECORD
 [] : 1.2 cm/s
- Voltage variations may be noted due to normal production tolerances.
- AC voltage readings in the bias oscillator with a VTVM.
- Total current is measured with no cassette installed.

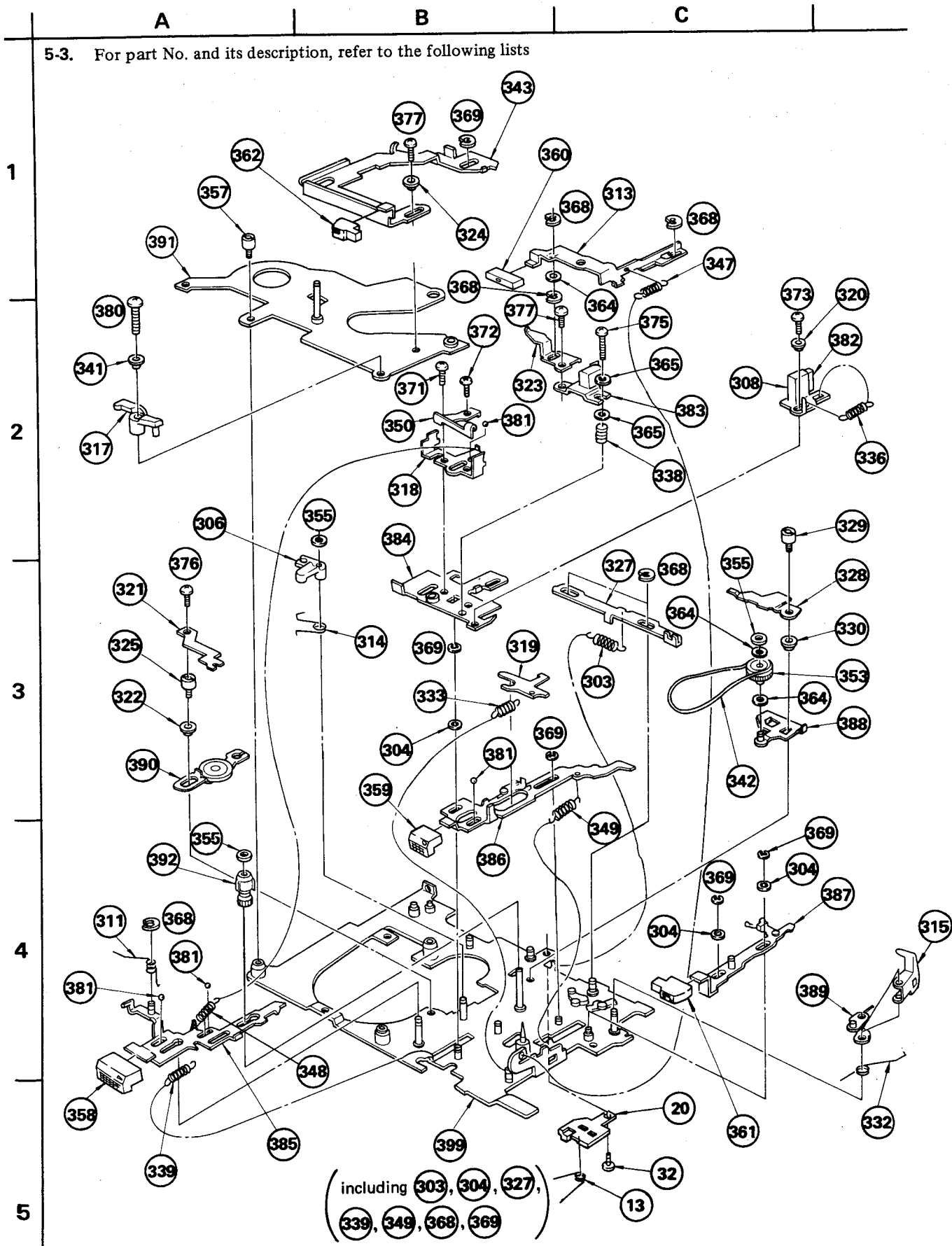
SECTION 5
EXPLODED VIEWS AND PARTS LIST

5-1. For part No. and its description, refer to the following lists.



5-2. For part No. and its description, refer to the following lists.





M-205/205A

GENERAL SECTION

No.	Part No.	Description
1	1-503-038-00	SPEAKER
2	1-552-864-00	SWITCH, LEAF (S104)
3	1-553-226-00	SWITCH, LEAF
4	*****	
5	*****	
6	3-454-023-00	CUSHION
7	3-570-402-00	SPRING
8	3-570-404-00	PANEL, REEL
9	3-570-412-31	KNOB, CONTROL
10	3-570-430-00	SPRING
11	3-570-611-00	SHEET, PROTECTION, LID
12	3-570-921-00	SPACER, SWITCH
13	3-576-513-00	SPRING
14	• 3-576-514-00	PLATE, NUT
15	3-576-515-00	SPRING
16	3-576-518-00	SHAFT, CASSETTE
17	3-576-519-00	BUTTON, PAUSE
18	3-576-520-00	KNOB, SELECTION, SPEED
19	3-576-521-00	TERMINAL, BP
20	• 3-576-523-00	HOLDER, CONTACT
21	3-576-524-00	LID, BATTERY CASE
22	3-576-530-00	CABINET (FRONT)
23	• 3-576-535-00	PAPER, SHIELD
24	• 3-576-541-00	PLATE, GROUND
25	3-576-546-00	BLIND, MICROPHONE KNOB
26	3-831-441-XX	CUSHION
27	3-842-935-00	CUSHION
28	*****	
29	7-627-551-47	SCREW, PRECISION +P 1.4X1.4
30	7-627-551-77	SCREW, PRECISION +P 1.4X4 TYPE1
31	7-627-552-47	SCREW, PRECISION +P 1.7X4
33	7-627-850-27	SCREW, PRECISION +P 1.4X3
34	7-627-850-88	+P 1.4X5
35	7-685-103-21	SCREW +P 2X5 TYPE2 SLIT
36	9-911-816-01	RIBBON, BATTERY
37	9-911-841-XX	CUSHION, CASSETTE LID
38	A-3036-478-A	SLIDER ASSY, MICROPHONE
39	A-3040-328-A	CABINET (REAR) ASSY
40	X-3576-505-0	LID ASSY, CASSETTE
41	X-3576-506-0	STRAP ASSY
42	X-3576-507-0	PANEL ASSY
43	*****	
44	• A-3015-108-A	PC BOARD ASSY, AUDIO
45	• 3-576-556-00	PAPER, SHIELD, MOTOR

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " • " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

GENERAL SECTION

No.	Part No.	Description
46	3-576-549-00	LABEL, BATTERY
47	3-576-557-00	LABEL, MODEL NUMBER (EXP)
48	3-576-558-00	LABEL (EXP), CAUTION, MAGNETIC
49	3-578-232-00	ORNAMENT, ADJUSTMENT HOLE

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ACCESSORY & PACKING MATERIAL

Part No.	Description
1-463-339-11	ADAPTOR, AC-39*** (US)
1-504-075-00	EARPHONE, MAGNETIC
1-528-027-11	BATTERY, NEW SUPER (SUM-3)*** (Canadian, E)
3-570-631-00	BAG, POLYETHYLENE
3-576-536-00	CUSHION
3-576-543-00	SPACER
3-576-559-00	CASE, CARRYING
3-576-562-00	INDIVIDUAL CARTON*** (AEP, Canadian, E)
3-576-566-00	PROTECTOR (AC-39)*** (US)
3-576-567-00	INDIVIDUAL CARTON*** (US)
3-701-616-00	BAG, POLYETHYLENE
3-701-624-00	BAG, POLYETHYLENE
3-783-475-11	MANUAL, INSTRUCTION*** (AEP)
3-783-475-21	MANUAL, INSTRUCTION*** (US)
3-783-475-51	MANUAL, INSTRUCTION*** (Canadian, E)
3-793-965-11	INSTRUCTIONS*** (US)
3-794-006-21	CARD, CAUTION
3-795-138-11	INSTRUCTION, DUTCH SWEDISH
X-3701-105-0	ROD ASSY, CLEANING, HEAD

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ACCESSORY & PACKING MATERIAL

Part No.	Description
3-570-631-00	BAG, POLYETHYLENE
3-576-536-00	CUSHION
3-576-543-00	SPACER
3-576-549-00	LABEL, BATTERY
3-576-574-00	INDIVIDUAL CARTON
3-576-573-00	LABEL, MODEL NUMBER
3-578-232-00	ORNAMENT, ADJUSTMENT HOLE
3-701-616-00	BAG, POLYETHYLENE
3-701-624-00	BAG, POLYETHYLENE
3-701-999-00	LABEL, SERIAL NUMBER
3-783-980-21	MANUAL, INSTRUCTION
3-794-006-21	CARD, CAUTION

CAPACITORS:

- All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF: μF , PF: $\mu\mu\text{F}$.

COILS

- MMH : mH, UH : μH

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

MECHANISM SECTION

No.	Part No.	Description
301	1-541-162-00	MOTOR
302	1-548-541-21	COUNTER
303	3-547-664-00	SPRING, TENSION
304	3-547-729-21	SPACER, (A)
305	*****	
306	3-570-458-00	ARM, FWD IDLER
307	3-570-459-00	STRIP, CAPSTAN
308	3-570-461-00	BRACKET, ERASE HEAD
309	3-576-569-00	PLATE, THRUST
310	*****	
311	3-570-469-00	SPRING
312	3-570-470-00	BRACKET, MOTOR
313	3-570-472-00	LEVER, STOP
314	3-570-473-00	SPRING
315	3-570-474-00	LEVER, ERASING PROTECTION
316	3-570-477-00	BEARING, CAPSTAN
317	3-570-481-00	PLATE, DRIVING, CUE
318	3-570-483-00	GUIDE, TAPE
319	3-570-484-00	ARM, REV
320	3-570-489-00	SPACER, BRACKET, ESF
321	3-570-492-00	RETAINER
322	3-570-504-00	SPACER, IDLER PLATE
323	3-570-516-00	ARM, RETURN, C.R
324	3-570-518-00	SPACER, FF LEVER
325	3-570-519-00	SHAFT, STOPPER
326	3-570-522-00	FLYWHEEL
327	3-570-530-00	PLATE, LOCK
328	3-570-537-00	PLATE, IDLER (B)
329	3-570-539-00	SHAFT, IDLER PLATE
330	3-570-540-00	SPACER, FULCRUM
331	3-570-542-00	BELT, COUNTER
332	3-570-547-00	SPRING
333	3-570-553-00	SPRING, TENSION
334	*****	
335	*****	
336	3-570-556-00	SPRING, TENSION
337	3-570-557-00	SPRING, TENSION
338	3-570-558-00	SPRING, COMPRESSION
339	3-570-559-00	SPRING, TENSION
340	3-570-560-00	SPRING, TENSION
341	3-570-561-00	SPACER, CUE
342	3-570-565-00	BELT, DRIVING
343	3-570-568-00	LEVER, FF
344	3-570-575-00	SCREW, EJECT
345	3-570-576-00	SPRING

MECHANISM SECTION

No.	Part No.	Description
346	3-570-577-00	SPACER, EJECT
347	3-570-587-00	SPRING, TENSION
348	3-570-589-00	SPRING, TENSION
349	3-570-590-00	SPRING, TENSION
350	3-570-593-00	RETAINER, LEAD
351	*****	
352	3-576-570-00	SCREW, THRUST
353	3-570-605-00	GEAR (A), DRIVING
354	3-570-606-00	BRACKET (A), COUNTER
355	3-570-615-00	POLY-WASHER (DIA.1.2)
356	3-570-619-00	TUBE, STOPPER
357	3-576-503-00	SCREW, FITTING, MD
358	3-576-504-00	BUTTON, FWD
359	3-576-505-00	BUTTON, REC
360	3-576-506-00	BUTTON, STOP
361	3-576-507-00	BUTTON, REW
362	3-576-508-00	BUTTON, FF
363	3-576-509-00	BUTTON, EJECT
364	3-701-436-01	WASHER, 1.6
365	3-701-436-11	WASHER, 1.6
366	3-701-439-00	WASHER
367	3-703-324-00	WASHER, POLY-SLIDER
368	7-624-101-01	RING, RETAINING E-1.2
369	7-624-102-04	STOP RING 1.5, TYPE -E
370	7-627-451-37	SCREW, PRECISION +K 1.4X2
371	7-627-551-07	SCREW, PRECISION +P 1.4X1.6
372	7-627-551-17	SCREW, PRECISION +P 1.4X2
373	7-627-551-67	SCREW, PRECISION +P 1.4X3.5
374	7-627-551-97	SCREW, PRECISION +P 1.4X2.2
375	7-627-552-67	SCREW, PRECISION +P 1.7X4.5
376	7-627-850-07	SCREW, PRECISION +P 1.4X2
377	7-627-850-17	SCREW, PRECISION +P 1.4X2.5
378	7-627-850-47	SCREW, PRECISION +P 1.4X1.6
379	7-627-850-77	SCREW, PRECISION +P 1.4X1.8
380	7-627-851-27	SCREW, PRECISION +P 1.4X5
381	7-671-111-11	STEEL, BOUL 1.5MM
382	8-658-099-00	ESF194-62
383	8-829-375-00	HEAD, (SMALL TYPE)
384	X-3570-408-0	CHASSIS ASSY, HAED
385	X-3570-409-0	LEVER ASSY, FWD
386	X-3570-410-0	LEVER ASSY, REC
387	X-3570-411-0	LEVER ASSY, REW
388	X-3570-412-0	PLATE (A) ASSY, IDLER
389	X-3570-413-0	ARM ASSY, STOP
390	X-3570-414-0	PLATE ASSY, IDLER, FWD

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

MECHANISM SECTION

No.	Part No.	Description
391	•X-3570-415-0	TABLE ASSY, BEARING, CAPSTAN
392	X-3570-417-0	REEL ASSY, REW
393	X-3570-419-0	LEVER ASSY, PINCH
394	X-3570-422-0	LEVER ASSY, EJECT PREVENTION
395	X-3576-502-0	LEVER ASSY, P.SWITCH
396	X-3576-503-0	LEVER ASSY, REC.SWITCH
397	X-3576-504-0	DECK ASSY, BEARING
398	X-3576-508-0	BRACKET ASSY, EJECT ARM
399	•X-3576-510-0	COMPL ASSY, MECHANISM CHASSIS
400	*****	
401	3-570-893-00	SPRING, TENSION
402	3-576-554-00	SPRING, TENSION

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNJ101	1-507-723-00	JACK, EXTENTION POWER
D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D103	8-719-422-21	DIODE 1T22AM
D901	8-719-909-10	DIODE GL-9PR10
IC101	8-759-608-07	IC CX-807
J101	1-507-720-00	JACK
J102	1-507-720-00	JACK
Q101	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-117-54	TRANSISTOR 2SA1175
Q103	8-729-245-83	TRANSISTOR 2SC2458
Q104	8-729-117-54	TRANSISTOR 2SA1175
Q105	8-729-117-54	TRANSISTOR 2SA1175
Q107	8-729-245-83	TRANSISTOR 2SC2458
Q108	8-729-117-54	TRANSISTOR 2SA1175
Q109	8-729-245-83	TRANSISTOR 2SC2458
S101	1-553-223-00	SWITCH, SLIDE
S102	1-553-280-00	SWITCH, SLIDE
S105	1-553-197-00	SWITCH, SLIDE
T101	1-433-207-00	TRANSFORMER, BIAS OSCILLATOR
TH101	1-800-202-XX	THERMISTOR S-10K
VR101	1-226-743-00	RES, VAR, CARBON 10K
VR102	1-226-512-00	RES, ADJ, METAL GLAZE 100
VR103	1-226-763-00	RES, ADJ, METAL GLAZE 4.7K

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " • " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

1/4 WATT CARBON RESISTORS

Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

ELECTROLYTIC CAPACITORS

RATING → : Use the high voltage rated one.						
CAP. (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	—	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	—
3300	1-121-661-00	1-123-075-00	1-123-071-00	—	—	—

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	—	1-123-028-00
3.3	1-121-995-00	—	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	—	—
47	1-123-251-00	1-121-919-00	—	—
100	1-123-084-00	—	—	—

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

RATING → : Use the high voltage rated one.					
CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

M-205/205A

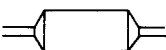
MYLAR CAPACITORS

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



TANTALUM CAPACITORS

RATING →: Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01					→	→	1-131-396-00
0.015						→	1-131-397-00
0.022						→	1-131-398-00
0.033						→	1-131-399-00
0.047						→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	—	—	—	—	1-131-412-00	→	1-131-406-00
0.68	—	—	—	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	—	—	1-131-418-00	—	1-131-413-00	→	1-131-408-00
1.5	—	1-131-421-00	—	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	—	1-131-419-00	—	1-131-414-00	1-131-355-00	1-131-349-00
3.3	—	1-131-422-00	—	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	—	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	—	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	—
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	—			
68	1-131-394-00	1-131-388-00	—	—			
100	1-131-395-00	—	—	—			



TANTALUM CAPACITORS

RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			—	—	1-131-262-00	1-131-278-00
0.33			—	—	1-131-263-00	1-131-279-00
0.47			1-131-169-00	—	1-131-264-00	1-131-280-00
0.68			—	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	—	1-131-266-00	1-131-282-00
1.5		1-131-250-00	—	—	1-131-267-00	1-131-283-00
2.2		—	—	1-131-259-00	1-131-268-00	1-131-284-00
3.3		—	1-131-255-00	—	1-131-269-00	—
4.7		1-131-251-00	1-131-171-00	—	1-131-270-00	—
6.8		—	—	1-131-260-00	1-131-271-00	—
10	—	—	1-131-256-00	—	1-131-272-00	—
15	—	1-131-252-00	—	1-131-261-00		
22	—	—	1-131-257-00	—		
33	1-131-176-00	1-131-253-00	1-131-173-00	—		
47	1-131-288-00	1-131-174-00	—	—		
100	1-131-177-00					

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